L Number	Hits	Search Text	DB	Time stamp
_	2	("5295355" "5435136").pn.	USPAT	2004/09/08 12:26
-	18	"pulse tube" and regenerator and fins	USPAT	2004/10/18 12:32
-	14	62/\$.ccls. and regenerator.ti. and fins	USPAT	2004/08/30 16:13
-	6	165/\$.ccls. and regenerator.ti. and fins	USPAT	2004/08/30 16:19
_	143	62/6.ccls. and "pulse tube"	USPAT	2004/08/30 16:22
_	113		USPAT	2004/10/18 10:17
		regenerator		
-	1520	165/10.ccls.	USPAT; US-PGPUB;	2004/08/30 16:27
		265 /20	EPO; JPO; DERWENT; IBM_TDB	
_	11	165/10.ccls. and "pulse tube"	USPAT; US-PGPUB; EPO; JPO;	2004/08/30 16:29
_	122	165/10.ccls. and fins	DERWENT; IBM_TDB USPAT;	2004/08/31 14:38
			US-PGPUB; EPO; JPO; DERWENT; IBM TDB	
-	23		USOCR	2004/08/31 08:12
-	0	("heat exchanger" and fins).ab.	USOCR	2004/08/31 08:13
_	8949	("heat exchanger" and fins).ab.	USPAT; US-PGPUB; EPO; JPO;	2004/08/31 08:13
-	5945	("heat exchanger" with fins).ab.	DERWENT; IBM_TDB USPAT; US-PGPUB;	2004/08/31 08:13
-	1797	("heat exchanger" with fins).ti.	EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO;	2004/08/31 08:13
-	55	("heat exchanger" with fins).ti. and spiral\$3	DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;	2004/08/31 09:38
-	1 5	2004-536519.NRAN. ("heat exchanger" with fins).ti. and star	IBM_TDB DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT;	2004/08/31 08:15 2004/08/31 09:40
-	0 23	("heat exchanger" with fins).ti. and star ("heat exchanger" with fins).ab. and star	IBM_TDB USOCR USPAT; US-PGPUB;	2004/08/31 09:40 2004/08/31 10:20
-	415	"pulse tube refrigerator"	EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB;	2004/08/31 14:42
_	1	2001-245435.NRAN.	EPO; JPO; DERWENT; IBM_TDB DERWENT	2004/08/31 10:32
	1	2002-112119.NRAN.	DERWENT	2004/08/31 10:32
_	1	2003-372439.NRAN.	DERWENT	2004/08/31 10:58
_	1	2003-570276.NRAN.	DERWENT	2004/00/31 10:50
<u> </u>	1	2004-349842.NRAN.	DERWENT	2004/08/31 11:16
-	48	"pulse tube" and "LG electronics".as.	USPAT; US-PGPUB; EPO; JPO; DERWENT;	2004/08/31 14:36
			IBM_TDB	

165/10.ccls. and fins and (regenerative regerator accumulator)				T	1 000 1 /00 /01 11 11
B   165/10.ccls. and fins and (stirling gifford)	-	31	1 ' '	USPAT;	2004/08/31 14:41
- 8   165/10.ccls. and fins and (stirling   USPAT   US			regerator accumulator)	1	1
B   165/10.ccls. and fins and (stirling   USPAT;   USPAT;   USPAT				1 '	
B   165/10.ccls. and fins and (stirling   USPAT; USPAT; USPAT   2004/08/31 14:42		ŀ		DERWENT;	
				IBM_TDB	
Gifford	-	8	165/10.ccls. and fins and (stirling	USPĀT;	2004/08/31 14:42
				US-PGPUB;	
				EPO; JPO;	
Pulse tube refrigerator"					
2 "pulse tube refrigerator" USCCR 2004/08/31 14:46 60 (regenerator accumulator) and fins USCCR 2004/08/31 14:46 60 (regenerator accumulator) with fins USCCR 2004/08/31 14:46 60 (regenerator accumulator) with fins USCCR 2004/08/31 15:17 8 3413802.URPN. USPAT 2004/08/31 15:17 2004/08/31 15:18 2004/08/31 16:01 2004/08/31 16:01 2004/08/31 16:01 2004/08/31 16:01 2004/08/31 16:03 2004/08/31 16:03 2004/08/31 16:03 2004/08/31 16:03 2004/08/31 16:03 2004/08/31 16:03 2004/08/31 16:03 2004/08/31 16:03 2004/08/31 16:03 2004/08/31 16:03 2004/08/31 16:03 2004/08/31 16:03 2004/08/31 16:03 2004/08/31 16:04 2004/08/31 16:04 2004/08/31 16:04 2004/08/31 16:04 2004/08/31 16:04 2004/08/31 16:04 2004/08/31 16:04 2004/08/31 16:04 2004/08/31 16:04 2004/08/31 16:04 2004/08/31 16:04 2004/08/31 16:04 2004/08/31 16:04 2004/08/31 16:04 2004/08/31 16:04 2004/08/31 16:04 2004/08/31 16:05 2004/08/31 16:05 2004/08/31 16:05 2004/08/31 16:05 2004/08/31 16:05 2004/08/31 16:05 2004/08/31 16:05 2004/08/31 16:05 2004/08/31 16:05 2004/08/31 16:05 2004/08/31 16:05 2004/08/31 16:15 2004/08/31 16:15 2004/08/31 16:15 2004/08/31 16:15 2004/08/31 16:15 2004/08/31 16:15 2004/08/31 16:15 2004/08/31 16:17 2004/08/31 16:17 2004/08/31 16:17 2004/08/31 16:17 2004/08/31 16:17 2004/08/31 16:18 2004/08/31 16:18 2004/08/31 16:18 2004/08/31 16:18 2004/08/31 16:18 2004/08/31 16:18 2004/08/31 16:18 2004/08/31 16:20 2004/08/31 16:20 2004/08/31 16:20 2004/08/31 16:20 2004/08/31 16:20 2004/08/31 16:20 2004/08/31 16:20 2004/08/31 16:20 2004/08/31 16:20 2004/08/31 16:20 2004/08/31 16:20 200				1	
- 664 (regenerator accumulator) and fins	l _	)	"nulse tube refrigerator"		2004/08/31 14:46
60	_				
S   3413802.URPN.   USPAT   2004/08/31 15:18	<b>i</b> _				
- 2 ("5918470" "5613367").pn. USPAT 2004/08/31 15:55	i _				
- 3 ("3526099"   "3817044"   "4845953").PN. USPAT 2004/08/31 15:55	<u> </u>	l .			
- 7 ("4024727"   "4335579"   "4570445"   USPAT 2004/08/31 15:58	I _		( 3310470		
"4717405"   "5172554"   "5269147"   "5275002") PN.  5 ("3719051"   "4206609"   "5259197"   USPAT 2004/08/31 16:00 "5465579"   "5505047").PN.  6 5632149.URPN. USPAT 2004/08/31 16:03 12 ("0008487"   "2267619"   "3373798"   USPAT 2004/08/31 16:03 "3384157"   "3463222"   "3468634"   "3491184"   "3997028"   "3910344"   "4084633"   "420441"   "5429177").PN.  13 ("2900798"   "3216444"   "3692095"   USPAT 2004/08/31 16:04 "3692099"   "3960204"   "4201206"   "4612912"   "4830092"   "5165466"   "5522223" ) PN.  - 3 5746269.URPN. USPAT 2004/08/31 16:05 "3960204"   "4299061"   "4259844"   USPAT 2004/08/31 16:06 "3960204"   "429061"   "4259844"   USPAT 2004/08/31 16:06 "3960204"   "429061"   "4259844"   USPAT 2004/08/31 16:16 "5266345"   "5351490"   "522223"   "5746269"   USPAT 2004/08/31 16:14 "5569709"   "5552223"   "5746269"   USPAT 2004/08/31 16:14 - 1 (1634110"   "1992646"   "2089340"   USPAT 2004/08/31 16:15 "2357984"   "2656808"   "2737370"   USPAT 2004/08/31 16:15 "3011466"   "3190053"   "3145586"   USPAT 2004/08/31 16:15 "3011466"   "3190053"   "3145586"   USPAT 2004/08/31 16:17 "2789797"   "3003749"   "3145586"   USPAT 2004/08/31 16:17 "2789797"   "3003749"   "3145586"   USPAT 2004/08/31 16:17 "2789797"   "3003749"   "3145586"   USPAT 2004/08/31 16:17 "4676204"   "4828661"   "4893685"   USPAT 2004/08/31 16:18 "41414598"   "4131110"   "4479355"   USPAT 2004/08/31 16:18 "41497256"   "4893267"   "48568628"   USPAT 2004/08/31 16:20 "4895275"   "4993487".PN.  - 1 1 ("180822"   "3367406"   "3397738"   USPAT 2004/08/31 16:20 "4995275"   "4993487".PN.  - 5 3367406.URPN. USPAT 2004/08/31 16:22 "4995275"   "4993487".PN.  - 5 3367406.URPN. USPAT 2004/08/31 16:22 "5299337"   "5332029".PN. USPAT 2004/08/31 16:22 "5299337"   "5332029".PN. USPAT 2004/08/31 16:22 "5299337"   "5332029".PN. USPAT 200	-				4
- \$ "5275002").PN. 5 ("37319051"   "4206609"   "5259197"   USPAT 2004/08/31 16:00 "5465579"   "5505047").PN. 6 5632149.URPN. 12 ("0008487"   "2267619"   "3373798"   USPAT 2004/08/31 16:03 "3384157"   "3463222"   "3468634"   USPAT 2004/08/31 16:03 "3384157"   "3463222"   "3468634"   USPAT 2004/08/31 16:03 "3384157"   "3463222"   "3468634"   USPAT 2004/08/31 16:03 "3491184"   "3907028"   "3910344"   "404633"   "4200441"   "5429177").PN 13 ("2900788"   "3216484"   "5629177").PN 13 ("2900788"   "3316484"   "3692095"   USPAT 2004/08/31 16:04 "4259844"   "4429732"   "4478046"   "4612912"   USPAT 2004/08/31 16:05 "552223").PN 19 ("3216484"   "3692095"   "3692099"   USPAT 2004/08/31 16:06 "366204"   "4209061"   "4259944"   USPAT 2004/08/31 16:06 "366204"   "4209061"   "4259944"   USPAT 2004/08/31 16:06 "55226345"   "5351490"   "5429177"   USPAT 2004/08/31 16:14 "4357987"   "4901787"   "5165466"   USPAT 2004/08/31 16:14 2 ("1734136"   "3100930").PN. USPAT 2004/08/31 16:14 2 ("1734136"   "3100930").PN. USPAT 2004/08/31 16:14 - 2 ("1734136"   "310930").PN. USPAT 2004/08/31 16:15 - 14 ("163410"   "1992646"   "2089340"   USPAT 2004/08/31 16:15 - 2537984"   "2656808"   "2737370"   USPAT 2004/08/31 16:15 - 2537984"   "32915555"   "4580623"   USPAT 2004/08/31 16:17 - 2789797"   "3303139"   "345586"   USPAT 2004/08/31 16:17 - 2789797"   "3303319"   "3572466"   USPAT 2004/08/31 16:17 - 2789797"   "3303319"   "3572466"   USPAT 2004/08/31 16:17 - 2789797"   "4328861"   "4459402").PN 1 1 ("1908921"   "4319105"   "44795402").PN 1 1 ("1908921"   "3367466"   "337738"   USPAT 2004/08/31 16:20 - "4487256"   "469917"   "4759402").PN 1 1 ("1908921"   "3367466"   "3367246"   USPAT 2004/08/31 16:20 - "4895655"   "44993487").PN 5 5 55152147"   "3166765"   "5224657"   USPAT 2004/08/31 16:22 - "598337"   "3367406"   "33672465"   USPAT 2004/08/31 16:22 - "598337"   "3532029", PN 5 5 55152147"   "3166765"   "5224657"   USPAT 2004/08/31 16:22 - "5989337"   "3567406"   "3367466"   USPAT 2004/08/31 16:22 - "5989337"   "35674	i -	l '		USPAI	2004/06/31 13:36
-   5	1				
- 6 5532149.URPN 0 6 745822.URPN 12 ("0008487"   "2267619"   "3373798"   USPAT 2004/08/31 16:03		_			0004/00/04 45 00
- 6   5632149.URPN.	-	5		USPAT	2004/08/31 16:00
- 0 6745822 URPN. USPAT 2004/08/31 16:03   12 ("0008487"   "2267619"   "3373798"   USPAT 2004/08/31 16:03   "3381157"   "3463222"   "3468634"   USPAT 2004/08/31 16:03   "3491184"   "3397028"   "3910344"   USPAT 2004/08/31 16:04   "369099"   "3920044"   "4210206"   USPAT 2004/08/31 16:04   "3692099"   "3860204"   "4210206"   USPAT 2004/08/31 16:05   "552223"),PN.   - 3 5746269 URPN.		_	, ,		
- 12 ("00008487"   "2267619"   "3373798"   USPAT   2004/08/31 16:03 "3384157"   "346222"   "3468634"   USPAT   2004/08/31 16:03 "3384157"   "346222"   "3468634"   USPAT   2004/08/31 16:04 "468433"   "4200441"   "5429177").PN.   USPAT   2004/08/31 16:04 "3692099"   "3960204"   "4201206"   "4259844"   "442912"   "4830922"   "5165466"   "552223").PN.   USPAT   2004/08/31 16:05   USPAT   2004/08/31 16:06   "3960204"   "4209061"   "4259844"   "44357987"   "4479046"   "4357987"   "4479046"   "4612912"   "4357987"   "4479046"   "4612912"   "4357987"   "4479046"   "4612912"   "4357987"   "4479046"   "4612912"   "4357987"   "4479046"   "4612912"   "4357987"   "4479046"   "4612912"   "55286345"   "55286345"   "551490"   "542977"   "5469709"   "552223"   "5746269"   "5520133").PN.   USPAT   2004/08/31 16:14   2004/08/31 16:14   2004/08/31 16:15   2004/08/31 16:15   2004/08/31 16:15   2004/08/31 16:15   2004/08/31 16:15   2004/08/31 16:15   2004/08/31 16:15   2004/08/31 16:15   2004/08/31 16:15   2004/08/31 16:17   2004/08/31 16:17   2004/08/31 16:17   2004/08/31 16:17   2004/08/31 16:17   2004/08/31 16:17   2004/08/31 16:17   2004/08/31 16:17   2004/08/31 16:17   2004/08/31 16:18   2004/08/31 16:18   2004/08/31 16:20   2004/08/31 16:30   2004/08/31 16:30   2004/08/31 16:30   2	<u> </u> -	1			
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- 13 ("2900798"   "316484"   "5429177").PN.			"3384157"   "3463222"   "3468634"		
-   13	]				
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- 3 5746269.URPN. 19 ("3216484"   "3692095"   "3692099"   USPAT 2004/08/31 16:05 "3960204"   "4209061"   "4259844"   "4357987"   "4478046"   "4612912"   "4357987"   "4478046"   "5165466"   "5286345"   "5351490"   "55429177"   "55404070"   "5522223"   "5746269"   "5920133") .PN 3 4103408.URPN 2 ("1734136"   "3100930").PN. USPAT 2004/08/31 16:14					
-   19	_	2	· ·	ייעקטוו	2004/08/31 16:05
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- 2 ("1734136"   "3100930").PN. USPAT		۱ ,	· ·	TICDAM.	2004/09/21 16-14
- 5   5582246.URPN.   USPAT   USPAT   2004/08/31 16:15   2004/08/31 16:15   2004/08/31 16:15   2004/08/31 16:15   2004/08/31 16:15   2004/08/31 16:15   2004/08/31 16:15   2004/08/31 16:15   2004/08/31 16:15   2004/08/31 16:15   2004/08/31 16:15   2004/08/31 16:15   2004/08/31 16:15   2004/08/31 16:15   2004/08/31 16:17   2004/08/31 16:17   2004/08/31 16:17   2004/08/31 16:17   2004/08/31 16:17   2004/08/31 16:17   2004/08/31 16:17   2004/08/31 16:17   2004/08/31 16:17   2004/08/31 16:17   2004/08/31 16:17   2004/08/31 16:18   2004/08/31 16:18   2004/08/31 16:18   2004/08/31 16:18   2004/08/31 16:18   2004/08/31 16:18   2004/08/31 16:18   2004/08/31 16:20   2004/08/31 16:20   2004/08/31 16:20   2004/08/31 16:20   2004/08/31 16:20   2004/08/31 16:20   2004/08/31 16:22   2004/08/31 16:22   2004/08/31 16:22   2004/08/31 16:22   2004/08/31 16:22   2004/08/31 16:22   2004/08/31 16:22   2004/08/31 16:22   2004/08/31 16:22   2004/08/31 16:22   2004/08/31 16:23   2004/08/31 16:23   2004/08/31 16:23   2004/08/31 16:23   2004/08/31 16:23   2004/08/31 16:23   2004/08/31 16:23   2004/08/31 16:23   2004/08/31 16:23   2004/08/31 16:23   2004/08/31 16:31   2004/08/31 16	-				
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- 2   "5042576"   "5117905").PN.   USPAT   2004/08/31 16:17   13   ("1640147"   "1862219"   "1887036"   USPAT   2004/08/31 16:17   "2789797"   "3003749"   "3145586"   "4067219"   "4328861"   "4469168"   "4676304"   "4815531"   "5372187"   "5511610").PN.   "5511610").PN.   ("2162083"   "3301319"   "3672446"   USPAT   2004/08/31 16:18   "4114598"   "4131110"   "4479359"   "4487256"   "4679617"   "4759402").PN.     "4386505"   "4392362"   "4489570"   "4516632"   "4619112"   "4651808"   "4959275"   "4993487").PN.   USPAT   2004/08/31 16:22   "4516632"   "4619112"   "4651808"   "4959275"   "4993487").PN.   USPAT   2004/08/31 16:22   "5298337"   "5332029").PN.   USPAT   2004/08/31 16:22   "5298337"   "5332029").PN.   USPAT   2004/08/31 16:22   "529837"   "5332029").PN.   USPAT   2004/08/31 16:23   "529837"   "5332029").PN.   USPAT   2004/08/31 16:25   "529837"   "5332029").PN.   USPAT   2004/08/31 16:27   "529837"   "5332029").PN.   "5224657"   USPAT   2004/08/31 16:27   "529837"   "5332029").PN.   "5234657"					
- 2 5682784.URPN.				1	
- 13 ("1640147"   "1862219"   "1887036"   USPAT 2004/08/31 16:17 "2789797"   "3003749"   "3145586"   "4067219"   "4328861"   "4469168"   "4676304"   "4815531"   "5372187"   "5511610").PN 9 ("2162083"   "3301319"   "3672446"   USPAT 2004/08/31 16:18 "4114598"   "4131110"   "4479359"   "4487256"   "4679617"   "4759402").PN 11 ("1808921"   "3367406"   "3397738"   USPAT 2004/08/31 16:20 "4386505"   "4392362"   "4489570"   "4516632"   "4619112"   "4651808"   "4959275"   "4993487").PN 5 3367406.URPN. USPAT 2004/08/31 16:22 "5298337"   "5332029").PN 29 regenerator.ti. and fins USPAT 2004/08/31 16:27 regenerator.ti. and fins USPAT 2004/08/31 16:27 2004/08/31 16:29 50 regenerator.ti. and (stirling gifford USOCR 2004/08/31 16:31			"5042576"   "5117905").PN.		
- 13 ("1640147"   "1862219"   "1887036"   USPAT 2004/08/31 16:17 "2789797"   "3003749"   "3145586"   "4067219"   "4328861"   "4469168"   "4676304"   "4815531"   "5372187"   "5511610").PN 9 ("2162083"   "3301319"   "3672446"   USPAT 2004/08/31 16:18 "4114598"   "4131110"   "4479359"   "4487256"   "4679617"   "4759402").PN 11 ("1808921"   "3367406"   "3397738"   USPAT 2004/08/31 16:20 "4386505"   "4392362"   "4489570"   "4516632"   "4619112"   "4651808"   "4959275"   "4993487").PN 5 3367406.URPN. USPAT 2004/08/31 16:22 "5298337"   "5332029").PN 29 regenerator.ti. and fins USPAT 2004/08/31 16:27 regenerator.ti. and fins USPAT 2004/08/31 16:27 2004/08/31 16:29 50 regenerator.ti. and (stirling gifford USOCR 2004/08/31 16:31	[ -	2	5682784.URPN.	USPAT	2004/08/31 16:17
"4067219"   "4328861"   "4469168"   "4676304"   "4815531"   "5372187"   "5511610").PN.  ("2162083"   "3301319"   "3672446"   "4114598"   "4131110"   "4479359"   "4487256"   "4679617"   "4759402").PN.  ("1808921"   "3367406"   "3397738"   "4386505"   "4392362"   "4489570"   "4516632"   "4619112"   "4651808"   "4959275"   "4993487").PN.  5 3367406.URPN.  - 5 ("5152147"   "5186765"   "5224657"   USPAT 2004/08/31 16:22 "5298337"   "5332029").PN.  - 29 regenerator.ti. and fins USPAT 2004/08/31 16:27 - 21 regenerator.ti. and fins USPAT 2004/08/31 16:29 - 50 regenerator.ti. and (stirling gifford USOCR 2004/08/31 16:31	[ <b>-</b> i	13	("1640147"   "1862219"   "1887036"		2004/08/31 16:17
"4067219"   "4328861"   "4469168"   "4676304"   "4815531"   "5372187"   "5511610").PN.  ("2162083"   "3301319"   "3672446"   "4114598"   "4131110"   "4479359"   "4487256"   "4679617"   "4759402").PN.  ("1808921"   "3367406"   "3397738"   "4386505"   "4392362"   "4489570"   "4516632"   "4619112"   "4651808"   "4959275"   "4993487").PN.  5 3367406.URPN.  - 5 ("5152147"   "5186765"   "5224657"   USPAT 2004/08/31 16:22 "5298337"   "5332029").PN.  - 29 regenerator.ti. and fins USPAT 2004/08/31 16:27 - 21 regenerator.ti. and fins USPAT 2004/08/31 16:29 - 50 regenerator.ti. and (stirling gifford USOCR 2004/08/31 16:31			"2789797"   "3003749"   "3145586"		1
"4676304"   "4815531"   "5372187"   "5511610").PN.  ("2162083"   "3301319"   "3672446"   USPAT 2004/08/31 16:18 "4114598"   "4131110"   "4479359"   "4487256"   "4679617"   "4759402").PN.  ("1808921"   "3367406"   "3397738"   USPAT 2004/08/31 16:20 "4386505"   "4392362"   "4489570"   "4516632"   "4619112"   "4651808"   "4959275"   "4993487").PN.  5 3367406.URPN.  5 ("5152147"   "5186765"   "5224657"   USPAT 2004/08/31 16:22 "5298337"   "5332029").PN.  29 regenerator.ti. and fins USPAT 2004/08/31 16:27 regenerator.ti. and fins USPAT 2004/08/31 16:27 regenerator.ti. and fins USOCR 2004/08/31 16:29 50 regenerator.ti. and (stirling gifford USOCR 2004/08/31 16:31		1			
- 9 ("2162083"   "3301319"   "3672446"   USPAT 2004/08/31 16:18 "4114598"   "4131110"   "4479359"   "4487256"   "4679617"   "4759402").PN 11 ("1808921"   "3367406"   "3397738"   USPAT 2004/08/31 16:20 "4386505"   "4392362"   "4489570"   "4516632"   "4619112"   "4651808"   "4959275"   "4993487").PN 5 3367406.URPN. USPAT 2004/08/31 16:22 "5298337"   "5332029").PN 29 regenerator.ti. and fins USPAT 2004/08/31 16:27 regenerator.ti. and fins USPAT 2004/08/31 16:29 50 regenerator.ti. and (stirling gifford USOCR 2004/08/31 16:31			T .		
- 9 ("2162083"   "3301319"   "3672446"   USPAT 2004/08/31 16:18			· · · · · · · · · · · · · · · · · · ·		
"4114598"   "4131110"   "4479359"   "4487256"   "4679617"   "4759402").PN.  11 ("1808921"   "3367406"   "3397738"   "4386505"   "4392362"   "4489570"   "4516632"   "4619112"   "4651808"   "4959275"   "4993487").PN.  5 3367406.URPN.  C "5152147"   "5186765"   "5224657"   USPAT 2004/08/31 16:22 ("5298337"   "5332029").PN.  29 regenerator.ti. and fins USPAT 2004/08/31 16:27 regenerator.ti. and fins USPAT 2004/08/31 16:29 ("5004/08/31 16:29 ("5004/08/31 16:29 ("5004/08/31 16:31 ("5004/08	_	9	· ·	USPAT	2004/08/31 16:18
- "4487256"   "4679617"   "4759402").PN.  ("1808921"   "3367406"   "3397738"   USPAT 2004/08/31 16:20  "4386505"   "4392362"   "4489570"   "4516632"   "4619112"   "4651808"   "4959275"   "4993487").PN.  - 5 3367406.URPN.  - 5 ("5152147"   "5186765"   "5224657"   USPAT 2004/08/31 16:22  "5298337"   "5332029").PN.  - 29 regenerator.ti. and fins USPAT 2004/08/31 16:27  - 21 regenerator.ti. and fins USPAT 2004/08/31 16:29  - 50 regenerator.ti. and (stirling gifford USOCR 2004/08/31 16:31		1			=301,00,01 10.10
- 11 ("1808921"   "3367406"   "3397738"   USPAT 2004/08/31 16:20	[				1
"4386505"   "4392362"   "4489570"   "4516632"   "4619112"   "4651808"   "4959275"   "4993487").PN.  5 3367406.URPN. USPAT 2004/08/31 16:22 "5298337"   "5332029").PN.  29 regenerator.ti. and fins USPAT 2004/08/31 16:27 regenerator.ti. and fins USPAT 2004/08/31 16:27 21 regenerator.ti. and fins USPAT 2004/08/31 16:29 50 regenerator.ti. and (stirling gifford USOCR 2004/08/31 16:31	_	11	, , , , , , , , , , , , , , , , , , , ,	HSDAT	2004/08/31 16:20
"4516632"   "4619112"   "4651808"   "4959275"   "4993487").PN.  5 3367406.URPN.  5 ("5152147"   "5186765"   "5224657"   USPAT 2004/08/31 16:22 "5298337"   "5332029").PN.  29 regenerator.ti. and fins USPAT 2004/08/31 16:27 regenerator.ti. and fins USPAT 2004/08/31 16:29 50 regenerator.ti. and (stirling gifford USOCR 2004/08/31 16:31	-			USFAI	2004/08/31 10:20
"4959275"   "4993487").PN.  5 3367406.URPN.  ("5152147"   "5186765"   "5224657"   USPAT 2004/08/31 16:22 204/08/31 16:22 204/08/31   "5298337"   "5332029").PN.  29 regenerator.ti. and fins USPAT 2004/08/31 16:27 21 regenerator.ti. and fins USOCR 2004/08/31 16:29 204/08/31 16:31					
- 5 3367406.URPN. USPAT 2004/08/31 16:22 5 ("5152147"   "5186765"   "5224657"   USPAT 2004/08/31 16:22 2004/08/31 16:22 2004/08/31 16:22 2004/08/31 16:22 2004/08/31 16:22 2004/08/31 16:22 2004/08/31 16:27 2004/08/31 16:27 2004/08/31 16:29 2004/08/31 16:29 2004/08/31 16:31 2004/08/31 16:31					
- 5 ("5152147"   "5186765"   "5224657"   USPAT 2004/08/31 16:22 "5298337"   "5332029").PN.  - 29 regenerator.ti. and fins USPAT 2004/08/31 16:27 regenerator.ti. and fins USOCR 2004/08/31 16:29 50 regenerator.ti. and (stirling gifford USOCR 2004/08/31 16:31		_	, ,		0004/00/02 25 55
"5298337"   "5332029").PN.  29 regenerator.ti. and fins USPAT 2004/08/31 16:27  21 regenerator.ti. and fins USOCR 2004/08/31 16:29  50 regenerator.ti. and (stirling gifford USOCR 2004/08/31 16:31	-	1			
- 29 regenerator.ti. and fins USPAT 2004/08/31 16:27 - 21 regenerator.ti. and fins USOCR 2004/08/31 16:29 - 50 regenerator.ti. and (stirling gifford USOCR 2004/08/31 16:31	-	5	1	USPAT	2004/08/31 16:22
- 21 regenerator.ti. and fins USOCR 2004/08/31 16:29 50 regenerator.ti. and (stirling gifford USOCR 2004/08/31 16:31			· · · · · · · · · · · · · · · · · · ·		
- 50 regenerator.ti. and (stirling gifford USOCR 2004/08/31 16:31	<del>-</del>	1	1 3		
		l .			1 1
pulse)	-	50		USOCR	2004/08/31 16:31
	L		pulse)		

-	271	regenerator.ti. and (stirling gifford)	USPAT;	2004/08/31 16:32
			US-PGPUB;	i
			EPO; JPO;	<b>i</b>
			DERWENT;	ļ
			IBM TDB	
_	17	regenerator.ti. and (stirling gifford) and	USPAT;	2004/08/31 16:33
	1 -	fin	US-PGPUB;	2004/00/31 10:33
1	İ	1		
1	į		EPO; JPO;	
İ			DERWENT;	
İ			IBM_TDB	
-	293	regenerator.ti. and (stirling gifford)	USPAT;	2004/09/02 08:46
			US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
			IBM TDB	
-	2	("6062023" "6381958").pn.	USPAT	2004/09/02 08:00
-	6		USPAT	2004/09/02 08:14
		"4191241"   "5675974"   "6347453").PN.	001111	2001, 03, 02 00121
1_	1	2003-179535.NRAN.	DEDMENT	2004/09/02 08:40
1_	1	2000-185532.NRAN.	DERWENT	2004/09/02 08:40
_	_	· ·	DERWENT	
_	10	1 3 3 (	USOCR	2004/09/02 09:22
-	0		USPAT	2004/09/02 09:17
-	30	regenerator.ti. and fins	USOCR	2004/09/02 10:13
-	8	3413802.URPN.	USPAT	2004/09/02 09:23
-	53	"global cooling".as.	USPAT;	2004/09/02 10:14
			US-PGPUB;	
			EPO; JPO;	
	Ì		DERWENT;	
			IBM TDB	
_ ,	15	berchowitz.in. and regenerator	USPAT;	2004/09/02 10:16
ŀ	10	berenowicz.in. and regenerator	US-PGPUB;	2004/03/02 10.10
	·		1	
			EPO; JPO;	
ŀ			DERWENT;	
1			IBM_TDB	
-	138	"thermal regenerator"	USPAT	2004/09/08 12:36
-	160	"thermal regenerator"	USPAT	2004/09/08 12:36
-	22	"thermal regenerator" not "thermal	USPAT	2004/09/08 12:37
		regenerator"		
-	11	3774405.URPN.	USPAT	2004/09/08 12:40
_	3	("1275507"   "3220201"   "3552120").PN.	USPAT	2004/09/08 12:42
	179	62/6.ccls. and (fins finned)	USPAT;	2004/10/18 10:17
	1.3	or or corp. and (ring rinned)	US-PGPUB;	2004/10/10 10:1/
			EPO; JPO;	
			DERWENT;	
_	124	62/6 gglo and /fire fire-3	IBM_TDB	0004/10/10 10 15
-	134	62/6.ccls. and (fins finned) and	USPAT;	2004/10/18 10:17
		regenerator	US-PGPUB;	
			EPO; JPO;	
1			DERWENT;	
			IBM_TDB	
-	22	62/6.ccls. and (fins finned) with	USPĀT;	2004/10/18 10:53
		regenerator	US-PGPUB;	
			EPO; JPO;	
	İ		DERWENT;	
			IBM TDB	
_	123	pulse and regenerator and (fin finned)	USPAT;	2004/10/18 10:54
	123	parse and regenerator and (IIII IIIIIeu)	1	2004/10/10 10:54
			US-PGPUB;	
			EPO; JPO;	
]			DERWENT;	]
			IBM_TDB	
-	24	("3451395"   "3502080"   "3668888"	USPAT	2004/10/18 12:30
		"4037631"   "4206609"   "4519389"		
		"5132089"   "5207674"   "5277030"		
		"5603221"   "5758505"   "5910104"		
		"5992158"   "6017337"   "6035657"		
		"6096032"   "6126684"   "6151901"		
		"6182666"   "6193644"   "6237355"		
		"6270494"   "6364899"   "6430956").PN.		
		,		

	40	"pulse tube" and regenerator and (fin	USPAT;	2004/10/18 12:53
	"	finned)	US-PGPUB;	2004/10/10 12:55
1		Timed/	EPO; JPO;	
			DERWENT;	
İ			1	
	_		IBM_TDB	
-	7	"pulse pipe" and regenerator and (fin	USPAT;	2004/10/18 13:02
		finned)	US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	
-	9	("3220201"   "3788088"   "4010621"	USPAT	2004/10/18 12:57
		"4872313"   "5113662"   "5174130"		
		"5465579"   "5609034"   "5693991").PN.		
-	47	((pulse pulsation) adj (tube pipe)) and	USPAT;	2004/10/18 13:15
		regenerator and (fin finned)	US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
			IBM TDB	
_	5	("5966942"   "6021643"   "6351954"	USPĀT	2004/10/18 13:07
		"6378312"   "6389819").PN.		
_	93	((pulse pulsation) adj (tube pipe)) and	USPAT;	2004/10/18 13:16
		(fin finned)	US-PGPUB;	
		(1111 1111100)	EPO; JPO;	
			DERWENT;	
			IBM TDB	
	25	(MRI "magnetic resonance imaging") and	USPAT	2004/10/19 10:02
-	25		OSERI	2004/10/15 10:02
	1	"pulse tube"	USPAT	2004/10/19 10:03
-	19	"pulse tube" with (insulated insulation)	USPAT	2004/10/19 10:03